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**From:** Partridge, Charles [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=27DA56DA9A12472787EF56077099CF36-PARTRIDGE, CHARLES]  
**Sent:** 6/3/2020 6:08:14 PM  
**To:** Fritz, Jason [Fritz.Jason@epa.gov]  
**Subject:** FW: Meconium bullets  
**Attachments:** Baranowski 1996\_heavy metals meconium AAS.PNG; Haram-Mourabet-1998.pdf; Meconium Bullets.pptx

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**From:** Woodbury, Lynn <woodburyl@cdmsmith.com>  
**Sent:** Tuesday, December 3, 2019 12:55 PM  
**To:** Partridge, Charles <Partridge.Charles@epa.gov>  
**Cc:** Greene, Nikia <Greene.Nikia@epa.gov>; David Shanight <shanightdt@cdmsmith.com>; Curt Coover <cooverca@cdmsmith.com>  
**Subject:** Meconium bullets

Hi Charlie –

Here is a synopsis of the information I've gathered on meconium thus far (see attached PowerPoint). I tried to touch on the various topics you and I have discussed, including prenatal vitamins mineral content, expected meconium metal concentrations, the lines of evidence supporting that there is a units error McDermott Table 1, a comparison of Butte:Columbia using corrected data, and overview of factors that can influence meconium and blood metal concentrations.

I've also attached two additional studies that provide information on expected meconium metal concentrations. I've got requests in for two other potentially relevant studies, but our information center is having to do an inter-library request, so it is unlikely we will have these before tomorrow AM. Here are the links to the abstracts in the interim:

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1442-200X.2012.03744.x>

<https://www.karger.com/Article/Abstract/242919>

We can discuss the PowerPoint information later today...talk to you then,  
Lynn

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